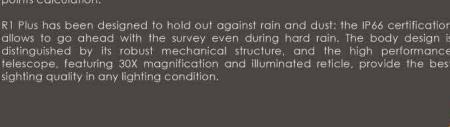


R1 Plus Total Station - Precise and accurate - Reliable - User friendly





R1 Plus has been designed to hold out against rain and dust: the IP66 certification allows to go ahead with the survey even during hard rain. The body design is distinguished by its robust mechanical structure, and the high performance telescope, featuring 30X magnification and illuminated reticle, provide the best





LONG DISTANCE MEASUREMENTS

Thanks to the high efficiency EDM, R1 Plus guarantees long distance measurements: 600 m in reflectorless mode and up to 5.000 m using a single prism, with millimeter accuracy.



FAST, ACCURATE, RELIABLE

Measuring distances in one second, with 2 mm accuracy, makes any job extremely cost effective and reliable. The wide range of application software allows to complete the Surveyor's tasks directly in the field.



3 DAYS OF FIELD WORK

The low power consumption circuit design and to the two high capacity batteries allow to continuously work for 26 hours and to measure over than 1.000 distances. The SD card up to 16 Gb can store an huge amount of data.



HIGH PROTECTION GRADE

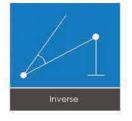
IP66 dustproof/waterproof rating ensures R1 Plus's high reliability in all weather conditions and allows to continue working even under very humid conditions and where sand and dust are present.

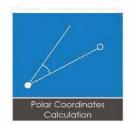


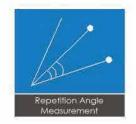
R1 PLUS

The most complete field software suite at your service

When the work is not limited to points collection R1 Plus becomes your portable equipment for COGO calculations and setting out of points, lines, roads. It's easy to calculate an area, the height of remote points, such as power lines and bridges, the accuracy of a traverse. More than 15 programs are available.



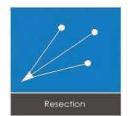








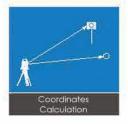




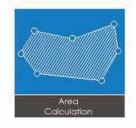




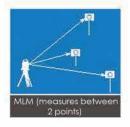












TECHNICAL FEATURES

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Reading system	Absolute encoder
Di-l	1" / 5" / 10"
Display resolution	(or 0.2mgon/1mgon/2mgon)
A _ L 11_'1	360°(dms/d)-
Angle Unit	400gon/6400mil
Accuracy ¹	2"

TELESCOPE

Magnification/Length	30 x/156 mm
Field of view	1°30'
Minimum focus	1.0 m
Reticle	9 brightness levels adjustable
Objective aperture	φ 45 mm

AUTOMATIC COMPENSATOR

System	liquid detection dual axis compensator	
Compensation range/Accuracy	± 3' / 1"	

DISTANCE MEASUREMENT RANGE

Reflectorless	$2.0 \sim 600^2 \text{m}$
	2.0 ~3000 ³ 2000 ⁴ 1500 ⁵
With Prism	Class 1
	up to 5000 m Class 3
With reflective sheet (60mm x 60mm)	2.0 ∼800 m

MEASUREMENT ACCURACY

Reflectorless	± (3+2×10 ⁻⁶ D)mm
Prism	± (2+2x10 ⁻⁶ D)mm
Reflective sheet (60mm x 60mm)	± (3+2x10 ⁻⁶ D)mm

MEASUREMENT TIME

Measuring time (Tracking/Fast/Fine)	0.4 sec / 0.6 sec / 1.0 sec
Distance Unit	m/ft/US ft

Illustrations, descriptions and technical specifications are not binding and may change

- 1. Standard deviation based on ISO 17123-3
- 2. Visibility about 40 km, back light less than 5000 lx, no haze, no direct sunlight.
- 3. Visibility about 40 km, sunny, no heat shimmer.
- 4. Visibility about 20 km, moderate sunlight, slight heat shimmer.
- 5. Visibility about 10 km, light haze, severe heat shimmer.

LASER PLUMMET

Laser type	635nm semiconductor laser
Accuracy	1mm at 1.5 m instrument H
Laser spot	±1,5mm/1,5m

LEVEL VIAL SENSITIVITY

Plate level	30 ("2mm)	
Circular level	8 ('/2mm)	

ENVIRONMENTAL CONDITIONS

Operating Temperature	-20° C ; +50° C	
Storage Temperature	-40° C ; +70° C	
Waterproof/Dustproof	IP66	

PHYSICAL SPECIFICATION

Dimensions	175 mm x 178 mm x 340 mm
Weight (including battery and tribrach)	5.1 Kg

BATTERY

Voltage/Capacity	7.4V / 3400mAh Li-ion battery	
Operating period with continuous angle measurement	36 hours	
Operating period with measurement every 30 seconds	26 hours (>1.000 measurement at 20°C)	

OTHER SPECIFICATIONS

Display	Two sides, LCD, 96x160 dots
Memory	120000 points, support SD card 16 Gb
Interface	RS-232C / mini USB/ SD card
Charger	110/220V, Charging time: about 4h

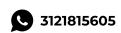












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